

## US005094041A

## United States Patent 1191

Kasner et al.

Patent Number: [11]

5,094,043

Date of Patent:

Mar. 10, 19"

[54]	RIDGE CAP TYPES ROOF VENTILATOR		
[75]	Inventors	s: Gary	y P. Kasner, Eden Prairie; Mark toll, Excelsior, both of Minn.
[73]	Assignee	: Libe Hop	erty Diversified Industries, New
[21]	Appl. No	.: <b>479</b> ,	376
[22]	Filed:	Feb	. 13, 1990
[51] [52]	Int. Cl. <sup>5</sup> U.S. Cl.	······	F24F 7/02 52/57; 52/199;
[58]	Field of	Search .	454/365 52/57, 199; 98/42.21, 98/42.22
[56]		Re	ferences Cited
U.S. PATENT DOCUMENTS			
	3,311,047 3,481,263 1,3,625,134 4,545,291 1,676,147 4,803,813 4,817,506 4,843,953	1/1959 3/1967 2/1969 2/1971 0/1985 6/1987 2/1989 4/1989 7/1989 4/1988	Honholt 98/42   Smith et al. 98/42   Belden 98/42   Smith 8/42.21   Kutsch 98/42.21   Mankowski 98/42.21   Fiterman 52/199   Cashman 52/199   Sells 98/42.21   Rudeen 98/42.21

## OTHER PUBLICATIONS

IPC printed application WO84/02970.

Primary Examiner-John E. Murtagh Attorney, Agent, or Firm-Moore & Hansen

## **ABSTRACT** [57]

A ridge peak roof ventilator comprising a pair of vent parts disposed on opposing sides of an opening in a roof peak, and a top panel disposed above and connecting each of the vent parts. The vent parts may be of unitary construction, folded from interconnected panels, or assembled from individual layers of sheet material, and each forms a multiplicity of air passages through which air flows from the interior to the exterior of the roof ventilator. The top panel is constructed from doublefaced corrugated plastic having a pair of planar plies and a convoluted intermediate ply. The underside of the top panel is routed along the centerline to form a concave recessed area, thereby cutting away a section of one planar ply and part of the intermediate ply to form oval-shaped openings. Each opening has side walls traversing concave arcuate paths between a maximum height adjacent the side edges of the recesesd area and a minimum height along the centerline. The top panel will responsively fold along the centerline corresponding to the minimum heights of each of the side walls. Each vent part defines pockets serving as precipitation barriers, the pockets being formed by cutting an array of apertures into separate panels and folding or attaching those panels in parallel abutting contact with the apertures aligned. The top panel may also define one or more lines of apertures extending completely therethrough. The roof ventilator may be shipped flat or folded into a compact bundle.

15 Claims, 5 Drawing Sheets

